

ANDRÉS F. REYES LEGA

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EDUCATION

Doctorate (<i>rerum naturalium</i>)	2000-2005	Johannes Gutenberg-Universität Mainz <i>Magna Cum Laude</i> · Institute of Physics (WA THEP) Ph.D. Thesis: <i>On the Geometry of the Spin-Statistics Connection in Quantum Mechanics</i> Advisor: Nikolaos PAPADOPOULOS Co-Advisor: Florian SCHECK
Magister (M.Sc.) in Mathematics	1997-1999	Universidad de los Andes, Bogotá M.Sc. Thesis: <i>Quantum Hall Effect and Topology</i> Advisor: Sergio ADARVE
Physicist	1991-1996	Universidad de los Andes, Bogotá B.Sc. Degree Project: <i>Estructura electrónica de superficies ternarias</i> Advisor: Ángela CAMACHO

PROFESSIONAL CAREER

2010–	Associate Professor, UNIVERSIDAD DE LOS ANDES — Bogotá
Dec 2011– Mar 2012	Visiting Scientist, THE INSTITUTE OF MATHEMATICAL SCIENCES (IMSc) — Chennai
2006–2009	Assistant Professor, UNIVERSIDAD DE LOS ANDES — Bogotá
2002–2005	Research Assistant (wissenschaftliche Hilfskraft), JOHANNES GUTENBERG UNIVERSITÄT — Mainz
1997–1999	Research Assistant, Condensed Matter Physics Group, UNIVERSIDAD DE LOS ANDES/COLCIENCIAS ¹ — Bogotá

RESEARCH EXPERIENCE

Publications	38 publications: 24 refereed journal articles, 8 book chapters, 6 co-edited volumes Google Scholar , ORCID	
Projects	2022–2023	<i>Álgebras de operadores y teoría cuántica de campos</i> (PI). Funded by Universidad de los Andes (aprox. 8.000 €)
	2020–2021	<i>Transiciones de fase topológicas y geometría no-conmutativa</i> (PI). Funded by Universidad de los Andes (aprox. 8.000 €)

¹ Ministry of Sciences (formerly Colombian Department of Science, Technology and Innovation)
www.minciencias.gov.co

	2018–2019	<i>Geometric, Algebraic and Topological Methods for Quantum Field Theory</i> (PI). Funded by Universidad de los Andes (aprox. 8.000 €)
	2014–2016	<i>Entanglement Entropy in Quantum Field Theory</i> (PI). Funded by Universidad de los Andes (aprox. 15.000 €)
	2012–2014	<i>Entanglement and Topological Order in 2-dimensional Systems</i> (Co-I). Funded by Universidad de los Andes (aprox. 15.000 €)
	2008–2009	<i>Geometric and Algebraic Methods in Physics</i> (Colombian PI). Funded by Colciencias–DAAD (aprox. 25.000 €)
	2006–2009	<i>Geometry of the Spin-Statistics Connection</i> (PI). Funded by Universidad de los Andes (aprox. 20.000 €)
<i>Short research visits</i>	2007–2018	Institut für Physik (ThEP), Johannes Gutenberg-Universität Mainz (Germany). Regular visitor (1 month almost every year). Invited by Florian Scheck & Nikolaos Papadopoulos
	Jun 2017	Fakultät für Mathematik, Technische Universität Chemnitz (Germany). Invited by Christian Lehn
	Jul 2013	Institute of Physics, Natal (Brazil). Invited by Amilcar R. de Queiroz
	May 2012	Departamento de Física Teórica, Universidad de Zaragoza (Spain). Invited by Luis Boya
	Oct 2003	Max-Planck-Institut für Mathematik in den Naturwissenschaften, Leipzig (Germany). Invited by Mario Paschke
	Sep-Oct 1999	Mathematics Department, Blaise Pascal University, Clermont-Ferrand (France). Invited by Sylvie Paycha
	Jul 1998 & Aug 1997	International Centre for Theoretical Physics, Trieste (Italy). <i>Federation arrangement</i> with Universidad de los Andes

SELECTED ACADEMIC ACTIVITIES

<i>Student supervision</i>	2007–2025	Advisor of 6 Ph.D. students, 12 M.Sc. students and 45 B.Sc. students.
<i>Organization of scientific events</i>	1999–2025	Co-organizer of several international and local events, including summer schools, workshops and smaller meetings, with combined funding of aprox. 150.000€ (last 10 years) from CIMPA, DAAD, Ecos-Nord, ICTP, Colciencias and Universidad de los Andes.
<i>Editorial Work</i>	2023–	Editor of Hipótesis (science outreach journal of the Faculty of Sciences, Universidad de los Andes).
	2000–2025	Co-editor of 6 volumes on topics at the borderline between geometry, topology and quantum field theory, published by major publishing houses (Cambridge UP, Springer, World Scientific).
<i>Participation in scientific events</i>	2006–2025	Invited talks at Seminars, Conferences and Colloquia (selection): Corfu (2023), Dublin (2023), San José (2019), Santiago (2019, 2023), Kolkata (2018), Jena (2017), Chemnitz (2017), Madrid (2017), Caracas (2016), Stellenbosch (2015), Brasilia (2013), Zaragoza (2012), Kolkata (2012), Buwaneshwar (2012), Chennai (2012, 2023), Hamburg (2007), Mainz (2007, 2012, 2014, 2017), Houston (2006).

<i>Refereeing</i>	2005–2025	<i>Refereeing for</i> Rep. Prog. Phys., J. Phys. (A and C), Physica B, Phys. Lett. A, Int. J. Mod. Phys. A, Int. J. Geom. Methods Mod. Phys, Lett. Math. Phys., J. Math. Phys., Eur. Phys. J. Plus. <i>Reviewer for</i> Math. Rev.
<i>Advisory Committees</i>	2018	International Conference on “Noncommutative Geometry: Physical and Mathematical Aspects of Quantum Space-Time and Matter” (S. N. Bose National Centre for Basic Sciences, Kolkata). Member of the International Advisory Committee.

OTHER INFORMATION

2017	Ranked <i>Investigador Senior</i> (highest possible) according to MINCIENCIAS ranking of researchers (convocatoria 781 de 2017)
2000-2003	Holder of a scholarship from the DAAD (A/99/03605), Germany
1998-1999	Holder of a scholarship from the MAZDA FOUNDATION FOR THE ARTS AND SCIENCES, Colombia
1991-1995	Holder of the scholarship <i>Beca 40 años</i> , UNIANDES, Colombia

March 30, 2025